

MINERAL RESOURCES, INC.

Location Weld County, CO, USA(Imported)

Slot Slot #22

Field Wattenberg

Well CS-Kinkade #2-1-12

Installation C Street Pad

Wellbore CS-Kinkade #2-1-12 (PWB)

East (feet) ->

Scale 1 cm = 400 ft -800 0 800 1600

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00
KOP	1066.00	0.00	0.00	1066.00	0.00	0.00	0.00	0.00
End of Build	1689.20	12.46	10.88	1684.30	66.31	12.74	2.00	-65.81
End of Hold	6537.24	12.46	10.88	6418.07	1093.85	210.18	0.00	-1085.63
Target CS22	7559.47	90.00	179.68	7111.70	534.05	243.07	10.00	-525.02
Target CS43	8426.54	90.00	179.68	7111.70	-333.01	247.89	0.00	341.66
End of Turn	8430.91	90.00	179.77	7111.70	-337.37	247.91	2.00	346.02
Target CS24	13720.08	90.00	179.77	7111.70	-5626.50	269.29	0.00	5632.53
End of Turn	13733.68	90.00	179.50	7111.70	-5640.10	269.37	2.00	5646.13
T.D. & Target CS23	16241.13	90.00	179.50	7111.70	-8147.45	291.41	0.00	8152.66

Surface 0.00 N 0.00 E

<- North(feet)

Scale 1 cm = 400 ft

<- True Vertical Depth (feet)

Scale 1 cm = 400 ft

Tie on - 0.00 Inc, 16.00 MD, 16.00 TVD, 0.00 VS

3DS Kick off Point - 0.00 Inc, 1066.00 MD, 1066.00 TVD, 0.00 VS

End of Build - 12.46 Inc, 1689.20 MD, 1684.30 TVD, -65.81 VS

End of Hold - 12.46 Inc, 6537.24 MD, 6418.07 TVD, -1085.63 VS

3DJ Kick off Point - 90.00 Inc, 8426.54 MD, 7111.70 TVD, 341.66 VS

T.D. & End of Hold - 7111.70 TVD, 8147.45 S 291.41 E

S/C Kick off Point - 90.00 Inc, 7559.47 MD, 7111.70 TVD, -525.02 VS

3DJ Kick off Point - 90.00 Inc, 13720.08 MD, 7111.70 TVD, 5632.53 VS

Created by admin
Date plotted 11-Apr-2013
Plot reference is CS-Kinkade #2-1-12 (PWB).
Ref wellpath is CS22 (PWP#1).
Coordinates are in feet reference Slot #22.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4681.70 ft.
Plot North is aligned to GRID North.

-2400 -1600 -800 0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000 8800

Scale 1 cm = 400 ft

Vertical Section (feet) ->

Azimuth 177.95 with reference 0.00 N, 0.00 E from Slot #22



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #22	1403486.7838	3216358.0171	N40 26 18.1320	W104 43 21.7560	16.87S	153.25E	-0.30

Declination			
Date	Source	Time	
17-Jan-2013	IGRF Model [1900.0-2015.0]		11:43

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
C Street Pad	1403503.6566	3216204.7695	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Summary Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
16.00	0.00	0.000	16.00	0.00N	0.00E		0.00	1403486.78	3216358.02
1066.00	0.00	0.000	1066.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
1689.20	12.46	10.880	1684.30	66.31N	12.74E	2.00	-65.81	1403553.09	3216370.76
6537.24	12.46	10.880	6418.07	1093.85N	210.18E	==>	-1085.63	1404580.59	3216568.19
7559.47	90.00	179.680	7111.70	534.05N	243.07E	10.00	-525.02	1404020.81	3216601.07
8426.54	90.00	179.680	7111.70	333.01S	247.89E	==>	341.66	1403153.79	3216605.90
8430.91	90.00	179.770	7111.70	337.37S	247.91E	2.00	346.02	1403149.42	3216605.92
13720.08	90.00	179.770	7111.70	5626.50S	269.29E	==>	5632.53	1397860.50	3216627.29
13733.68	90.00	179.500	7111.70	5640.10S	269.37E	2.00	5646.13	1397846.91	3216627.38
16241.13	90.00	179.500	7111.70	8147.45S	291.41E	==>	8152.66	1395339.66	3216649.41

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1403486.78	3216358.02
16.00	0.00	0.000	16.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
1050.00	0.00	0.000	1050.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
1066.00	0.00	0.000	1066.00	0.00N	0.00E	==>	0.00	1403486.78	3216358.02
1150.00	1.68	10.880	1149.99	1.21N	0.23E	2.00	-1.20	1403487.99	3216358.25
1250.00	3.68	10.880	1249.87	5.80N	1.11E	2.00	-5.76	1403492.58	3216359.13
1350.00	5.68	10.880	1349.54	13.81N	2.65E	2.00	-13.71	1403500.60	3216360.67
1450.00	7.68	10.880	1448.85	25.24N	4.85E	2.00	-25.05	1403512.02	3216362.87
1550.00	9.68	10.880	1547.70	40.06N	7.70E	2.00	-39.75	1403526.84	3216365.71
1650.00	11.68	10.880	1645.96	58.25N	11.19E	2.00	-57.82	1403545.04	3216369.21
1689.20	12.46	10.880	1684.30	66.31N	12.74E	2.00	-65.81	1403553.09	3216370.76
1700.00	12.46	10.880	1694.84	68.59N	13.18E	==>	-68.08	1403555.38	3216371.20
1800.00	12.46	10.880	1792.48	89.79N	17.25E	==>	-89.11	1403576.57	3216375.27
1900.00	12.46	10.880	1890.13	110.98N	21.33E	==>	-110.15	1403597.76	3216379.34
2000.00	12.46	10.880	1987.77	132.18N	25.40E	==>	-131.19	1403618.96	3216383.41
2100.00	12.46	10.880	2085.41	153.37N	29.47E	==>	-152.22	1403640.15	3216387.49
2200.00	12.46	10.880	2183.06	174.57N	33.54E	==>	-173.26	1403661.35	3216391.56
2300.00	12.46	10.880	2280.70	195.76N	37.62E	==>	-194.29	1403682.54	3216395.63
2400.00	12.46	10.880	2378.34	216.96N	41.69E	==>	-215.33	1403703.73	3216399.70
2500.00	12.46	10.880	2475.99	238.15N	45.76E	==>	-236.37	1403724.93	3216403.78
2600.00	12.46	10.880	2573.63	259.35N	49.83E	==>	-257.40	1403746.12	3216407.85
2700.00	12.46	10.880	2671.27	280.54N	53.91E	==>	-278.44	1403767.32	3216411.92
2800.00	12.46	10.880	2768.92	301.74N	57.98E	==>	-299.47	1403788.51	3216415.99
2900.00	12.46	10.880	2866.56	322.93N	62.05E	==>	-320.51	1403809.70	3216420.07

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4681.7ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 177.950 degrees
Bottom hole distance is 8152.66 Feet on azimuth 177.95 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 20-May-2013



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3000.00	12.46	10.880	2964.20	344.13N	66.12E	==>	-341.55	1403830.90	3216424.14
3100.00	12.46	10.880	3061.85	365.32N	70.20E	==>	-362.58	1403852.09	3216428.21
3200.00	12.46	10.880	3159.49	386.52N	74.27E	==>	-383.62	1403873.29	3216432.28
3300.00	12.46	10.880	3257.13	407.71N	78.34E	==>	-404.65	1403894.48	3216436.36
3400.00	12.46	10.880	3354.78	428.91N	82.41E	==>	-425.69	1403915.68	3216440.43
3500.00	12.46	10.880	3452.42	450.10N	86.49E	==>	-446.72	1403936.87	3216444.50
3600.00	12.46	10.880	3550.06	471.30N	90.56E	==>	-467.76	1403958.06	3216448.57
3700.00	12.46	10.880	3647.70	492.49N	94.63E	==>	-488.80	1403979.26	3216452.65
3800.00	12.46	10.880	3745.35	513.69N	98.71E	==>	-509.83	1404000.45	3216456.72
3900.00	12.46	10.880	3842.99	534.88N	102.78E	==>	-530.87	1404021.65	3216460.79
4000.00	12.46	10.880	3940.63	556.08N	106.85E	==>	-551.90	1404042.84	3216464.86
4100.00	12.46	10.880	4038.28	577.27N	110.92E	==>	-572.94	1404064.03	3216468.94
4200.00	12.46	10.880	4135.92	598.47N	115.00E	==>	-593.98	1404085.23	3216473.01
4300.00	12.46	10.880	4233.56	619.66N	119.07E	==>	-615.01	1404106.42	3216477.08
4400.00	12.46	10.880	4331.21	640.86N	123.14E	==>	-636.05	1404127.62	3216481.15
4500.00	12.46	10.880	4428.85	662.05N	127.21E	==>	-657.08	1404148.81	3216485.23
4600.00	12.46	10.880	4526.49	683.25N	131.29E	==>	-678.12	1404170.01	3216489.30
4700.00	12.46	10.880	4624.14	704.44N	135.36E	==>	-699.16	1404191.20	3216493.37
4800.00	12.46	10.880	4721.78	725.64N	139.43E	==>	-720.19	1404212.39	3216497.44
4900.00	12.46	10.880	4819.42	746.83N	143.50E	==>	-741.23	1404233.59	3216501.52
5000.00	12.46	10.880	4917.07	768.03N	147.58E	==>	-762.26	1404254.78	3216505.59
5100.00	12.46	10.880	5014.71	789.22N	151.65E	==>	-783.30	1404275.98	3216509.66
5200.00	12.46	10.880	5112.35	810.42N	155.72E	==>	-804.33	1404297.17	3216513.73
5300.00	12.46	10.880	5210.00	831.61N	159.79E	==>	-825.37	1404318.36	3216517.81
5400.00	12.46	10.880	5307.64	852.81N	163.87E	==>	-846.41	1404339.56	3216521.88
5500.00	12.46	10.880	5405.28	874.00N	167.94E	==>	-867.44	1404360.75	3216525.95
5600.00	12.46	10.880	5502.92	895.20N	172.01E	==>	-888.48	1404381.95	3216530.02
5700.00	12.46	10.880	5600.57	916.39N	176.09E	==>	-909.51	1404403.14	3216534.10
5800.00	12.46	10.880	5698.21	937.59N	180.16E	==>	-930.55	1404424.34	3216538.17
5900.00	12.46	10.880	5795.85	958.78N	184.23E	==>	-951.59	1404445.53	3216542.24
6000.00	12.46	10.880	5893.50	979.98N	188.30E	==>	-972.62	1404466.72	3216546.31
6100.00	12.46	10.880	5991.14	1001.17N	192.38E	==>	-993.66	1404487.92	3216550.39
6200.00	12.46	10.880	6088.78	1022.37N	196.45E	==>	-1014.69	1404509.11	3216554.46
6300.00	12.46	10.880	6186.43	1043.56N	200.52E	==>	-1035.73	1404530.31	3216558.53
6400.00	12.46	10.880	6284.07	1064.76N	204.59E	==>	-1056.77	1404551.50	3216562.60
6500.00	12.46	10.880	6381.71	1085.95N	208.67E	==>	-1077.80	1404572.69	3216566.67
6537.24	12.46	10.880	6418.07	1093.85N	210.18E	==>	-1085.63	1404580.59	3216568.19
6600.00	6.43	22.050	6479.96	1103.77N	212.78E	10.00	-1095.46	1404590.51	3216570.79
6700.00	4.74	148.500	6579.73	1105.44N	217.06E	10.00	-1096.98	1404592.18	3216575.06
6800.00	14.26	169.960	6678.27	1089.75N	221.37E	10.00	-1081.14	1404576.49	3216579.38
6900.00	24.17	174.190	6772.58	1057.17N	225.60E	10.00	-1048.43	1404543.91	3216583.61
7000.00	34.13	176.050	6859.81	1008.69N	229.61E	10.00	-999.84	1404495.43	3216587.62
7100.00	44.11	177.140	6937.29	945.79N	233.29E	10.00	-936.84	1404432.53	3216591.30
7200.00	54.09	177.900	7002.69	870.37N	236.52E	10.00	-861.36	1404357.12	3216594.52
7300.00	64.08	178.490	7054.00	784.73N	239.20E	10.00	-775.67	1404271.48	3216597.20
7400.00	74.07	178.980	7089.67	691.46N	241.25E	10.00	-682.40	1404178.22	3216599.25
7500.00	84.06	179.430	7108.62	593.41N	242.60E	10.00	-584.36	1404080.17	3216600.61
7559.47	90.00	179.680	7111.70	534.05N	243.07E	10.00	-525.02	1404020.81	3216601.07
7600.00	90.00	179.680	7111.70	493.52N	243.29E	==>	-484.51	1403980.29	3216601.30
7700.00	90.00	179.680	7111.70	393.52N	243.85E	==>	-384.56	1403880.29	3216601.86
7800.00	90.00	179.680	7111.70	293.53N	244.41E	==>	-284.60	1403780.30	3216602.41
7900.00	90.00	179.680	7111.70	193.53N	244.96E	==>	-184.65	1403680.30	3216602.97
8000.00	90.00	179.680	7111.70	93.53N	245.52E	==>	-84.69	1403580.31	3216603.53
8100.00	90.00	179.680	7111.70	6.47S	246.07E	==>	15.26	1403480.31	3216604.08
8200.00	90.00	179.680	7111.70	106.47S	246.63E	==>	115.22	1403380.32	3216604.64
8300.00	90.00	179.680	7111.70	206.47S	247.19E	==>	215.17	1403280.33	3216605.20
8400.00	90.00	179.680	7111.70	306.47S	247.74E	==>	315.12	1403180.33	3216605.75
8426.54	90.00	179.680	7111.70	333.01S	247.89E	==>	341.66	1403153.79	3216605.90
8430.91	90.00	179.770	7111.70	337.37S	247.91E	2.00	346.02	1403149.42	3216605.92
8500.00	90.00	179.770	7111.70	406.46S	248.19E	==>	415.08	1403080.34	3216606.20
8600.00	90.00	179.770	7111.70	506.46S	248.60E	==>	515.03	1402980.34	3216606.60

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Bottom hole distance is 8152.66 Feet on azimuth 177.95 degrees from Wellhead
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Well Design Combined Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
8700.00	90.00	179.770	7111.70	606.46S	249.00E	==>	614.98	1402880.35	3216607.01
8800.00	90.00	179.770	7111.70	706.46S	249.40E	==>	714.93	1402780.35	3216607.41
8900.00	90.00	179.770	7111.70	806.46S	249.81E	==>	814.87	1402680.35	3216607.82
9000.00	90.00	179.770	7111.70	906.46S	250.21E	==>	914.82	1402580.36	3216608.22
9100.00	90.00	179.770	7111.70	1006.46S	250.62E	==>	1014.77	1402480.36	3216608.62
9200.00	90.00	179.770	7111.70	1106.46S	251.02E	==>	1114.72	1402380.37	3216609.03
9300.00	90.00	179.770	7111.70	1206.46S	251.43E	==>	1214.67	1402280.37	3216609.43
9400.00	90.00	179.770	7111.70	1306.46S	251.83E	==>	1314.62	1402180.38	3216609.84
9500.00	90.00	179.770	7111.70	1406.46S	252.23E	==>	1414.57	1402080.38	3216610.24
9600.00	90.00	179.770	7111.70	1506.46S	252.64E	==>	1514.52	1401980.39	3216610.64
9700.00	90.00	179.770	7111.70	1606.45S	253.04E	==>	1614.47	1401880.39	3216611.05
9800.00	90.00	179.770	7111.70	1706.45S	253.45E	==>	1714.42	1401780.40	3216611.45
9900.00	90.00	179.770	7111.70	1806.45S	253.85E	==>	1814.37	1401680.40	3216611.86
10000.00	90.00	179.770	7111.70	1906.45S	254.25E	==>	1914.32	1401580.41	3216612.26
10100.00	90.00	179.770	7111.70	2006.45S	254.66E	==>	2014.27	1401480.41	3216612.66
10200.00	90.00	179.770	7111.70	2106.45S	255.06E	==>	2114.22	1401380.42	3216613.07
10300.00	90.00	179.770	7111.70	2206.45S	255.47E	==>	2214.17	1401280.42	3216613.47
10400.00	90.00	179.770	7111.70	2306.45S	255.87E	==>	2314.12	1401180.43	3216613.88
10500.00	90.00	179.770	7111.70	2406.45S	256.27E	==>	2414.07	1401080.43	3216614.28
10600.00	90.00	179.770	7111.70	2506.45S	256.68E	==>	2514.02	1400980.44	3216614.69
10700.00	90.00	179.770	7111.70	2606.45S	257.08E	==>	2613.97	1400880.44	3216615.09
10800.00	90.00	179.770	7111.70	2706.45S	257.49E	==>	2713.92	1400780.45	3216615.49
10900.00	90.00	179.770	7111.70	2806.44S	257.89E	==>	2813.87	1400680.45	3216615.90
11000.00	90.00	179.770	7111.70	2906.44S	258.29E	==>	2913.82	1400580.46	3216616.30
11100.00	90.00	179.770	7111.70	3006.44S	258.70E	==>	3013.77	1400480.46	3216616.71
11200.00	90.00	179.770	7111.70	3106.44S	259.10E	==>	3113.72	1400380.47	3216617.11
11300.00	90.00	179.770	7111.70	3206.44S	259.51E	==>	3213.67	1400280.47	3216617.51
11400.00	90.00	179.770	7111.70	3306.44S	259.91E	==>	3313.62	1400180.47	3216617.92
11500.00	90.00	179.770	7111.70	3406.44S	260.32E	==>	3413.57	1400080.48	3216618.32
11600.00	90.00	179.770	7111.70	3506.44S	260.72E	==>	3513.52	1399980.48	3216618.73
11700.00	90.00	179.770	7111.70	3606.44S	261.12E	==>	3613.47	1399880.49	3216619.13
11800.00	90.00	179.770	7111.70	3706.44S	261.53E	==>	3713.42	1399780.49	3216619.53
11900.00	90.00	179.770	7111.70	3806.44S	261.93E	==>	3813.37	1399680.50	3216619.94
12000.00	90.00	179.770	7111.70	3906.44S	262.34E	==>	3913.32	1399580.50	3216620.34
12100.00	90.00	179.770	7111.70	4006.43S	262.74E	==>	4013.27	1399480.51	3216620.75
12200.00	90.00	179.770	7111.70	4106.43S	263.14E	==>	4113.22	1399380.51	3216621.15
12300.00	90.00	179.770	7111.70	4206.43S	263.55E	==>	4213.17	1399280.52	3216621.56
12400.00	90.00	179.770	7111.70	4306.43S	263.95E	==>	4313.12	1399180.52	3216621.96
12500.00	90.00	179.770	7111.70	4406.43S	264.36E	==>	4413.06	1399080.53	3216622.36
12600.00	90.00	179.770	7111.70	4506.43S	264.76E	==>	4513.01	1398980.53	3216622.77
12700.00	90.00	179.770	7111.70	4606.43S	265.16E	==>	4612.96	1398880.54	3216623.17
12800.00	90.00	179.770	7111.70	4706.43S	265.57E	==>	4712.91	1398780.54	3216623.58
12900.00	90.00	179.770	7111.70	4806.43S	265.97E	==>	4812.86	1398680.55	3216623.98
13000.00	90.00	179.770	7111.70	4906.43S	266.38E	==>	4912.81	1398580.55	3216624.38
13100.00	90.00	179.770	7111.70	5006.43S	266.78E	==>	5012.76	1398480.56	3216624.79
13200.00	90.00	179.770	7111.70	5106.43S	267.19E	==>	5112.71	1398380.56	3216625.19
13300.00	90.00	179.770	7111.70	5206.43S	267.59E	==>	5212.66	1398280.57	3216625.60
13400.00	90.00	179.770	7111.70	5306.42S	267.99E	==>	5312.61	1398180.57	3216626.00
13500.00	90.00	179.770	7111.70	5406.42S	268.40E	==>	5412.56	1398080.58	3216626.40
13600.00	90.00	179.770	7111.70	5506.42S	268.80E	==>	5512.51	1397980.58	3216626.81
13700.00	90.00	179.770	7111.70	5606.42S	269.21E	==>	5612.46	1397880.59	3216627.21
13720.08	90.00	179.770	7111.70	5626.50S	269.29E	==>	5632.53	1397860.50	3216627.29
13733.68	90.00	179.500	7111.70	5640.10S	269.37E	2.00	5646.13	1397846.91	3216627.38
13800.00	90.00	179.500	7111.70	5706.42S	269.96E	==>	5712.42	1397780.59	3216627.96
13900.00	90.00	179.500	7111.70	5806.41S	270.84E	==>	5812.39	1397680.60	3216628.84
14000.00	90.00	179.500	7111.70	5906.41S	271.71E	==>	5912.35	1397580.61	3216629.72
14100.00	90.00	179.500	7111.70	6006.41S	272.59E	==>	6012.31	1397480.62	3216630.60
14200.00	90.00	179.500	7111.70	6106.40S	273.47E	==>	6112.28	1397380.62	3216631.48
14300.00	90.00	179.500	7111.70	6206.40S	274.35E	==>	6212.24	1397280.63	3216632.36
14400.00	90.00	179.500	7111.70	6306.40S	275.23E	==>	6312.20	1397180.64	3216633.24
14500.00	90.00	179.500	7111.70	6406.39S	276.11E	==>	6412.17	1397080.65	3216634.11

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Vertical Section is from 0.00N 0.00E on azimuth 177.950 degrees
Bottom hole distance is 8152.66 Feet on azimuth 177.95 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 20-May-2013



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
14600.00	90.00	179.500	7111.70	6506.39S	276.99E	==>	6512.13	1396980.65	3216634.99
14700.00	90.00	179.500	7111.70	6606.38S	277.87E	==>	6612.09	1396880.66	3216635.87
14800.00	90.00	179.500	7111.70	6706.38S	278.74E	==>	6712.06	1396780.67	3216636.75
14900.00	90.00	179.500	7111.70	6806.38S	279.62E	==>	6812.02	1396680.68	3216637.63
15000.00	90.00	179.500	7111.70	6906.37S	280.50E	==>	6911.99	1396580.69	3216638.51
15100.00	90.00	179.500	7111.70	7006.37S	281.38E	==>	7011.95	1396480.69	3216639.39
15200.00	90.00	179.500	7111.70	7106.36S	282.26E	==>	7111.91	1396380.70	3216640.27
15300.00	90.00	179.500	7111.70	7206.36S	283.14E	==>	7211.88	1396280.71	3216641.14
15400.00	90.00	179.500	7111.70	7306.36S	284.02E	==>	7311.84	1396180.72	3216642.02
15500.00	90.00	179.500	7111.70	7406.35S	284.90E	==>	7411.80	1396080.73	3216642.90
15600.00	90.00	179.500	7111.70	7506.35S	285.77E	==>	7511.77	1395980.73	3216643.78
15700.00	90.00	179.500	7111.70	7606.35S	286.65E	==>	7611.73	1395880.74	3216644.66
15800.00	90.00	179.500	7111.70	7706.34S	287.53E	==>	7711.69	1395780.75	3216645.54
15900.00	90.00	179.500	7111.70	7806.34S	288.41E	==>	7811.66	1395680.76	3216646.42
16000.00	90.00	179.500	7111.70	7906.33S	289.29E	==>	7911.62	1395580.76	3216647.29
16100.00	90.00	179.500	7111.70	8006.33S	290.17E	==>	8011.59	1395480.77	3216648.17
16200.00	90.00	179.500	7111.70	8106.33S	291.05E	==>	8111.55	1395380.78	3216649.05
16241.13	90.00	179.500	7111.70	8147.45S	291.41E	==>	8152.66	1395339.66	3216649.41

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INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Hole Sections								
Diameter	Start	Start	Start	Start	End	End	End	End
[in]	MD[ft]	TVD[ft]	North[ft]	East[ft]	MD[ft]	TVD[ft]	North[ft]	East[ft]
12 1/4	16.00	16.00	0.00N	0.00E	500.00	500.00	0.00N	0.00E
8 3/4	500.00	500.00	0.00N	0.00E	7559.00	7111.70	534.52N	243.06E
6 1/8	7559.00	7111.70	534.52N	243.06E	16241.13	7111.70	8147.45S	291.41E

Casings								
Name	Top	Top	Top	Top	Shoe	Shoe	Shoe	Shoe
	MD[ft]	TVD[ft]	North[ft]	East[ft]	MD[ft]	TVD[ft]	North[ft]	East[ft]
9 5/8in Surface Casing	0.00				500.00	500.00	0.00N	0.00E
7.0in Intermediate Casing	0.00				7559.00	7111.70	534.52N	243.06E
4 1/2in Production Liner	6700.00	6579.73	1105.44N	217.06E	16241.13	7111.70	8147.45S	291.41E

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
CS22	534.05N	243.07E	7111.70	N40 26 23.3880	W104 43 18.5520	1404020.81	3216601.07	15-Mar-2013
CS23	8147.45S	291.41E	7111.70	N40 24 57.6000	W104 43 18.9120	1395339.66	3216649.41	15-Mar-2013
CS24	5626.50S	269.29E	7111.70	N40 25 22.5120	W104 43 18.9120	1397860.50	3216627.29	15-Mar-2013
CS43	333.01S	247.89E	7111.70	N40 26 14.8200	W104 43 18.5880	1403153.79	3216605.90	15-Mar-2013

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
33079	Planned	16241.13	7111.70	WdW Rate Gyro	Standard	

Notes

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Cutoff is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
CS-Kinkade #2-1-12 (PWB)	8-Apr-2013	11-Apr-2013

Well		
Name	Government ID	Last Revised
CS-Kinkade #2-1-12		8-Apr-2013

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #22	1403486.7838	3216358.0171	N40 26 18.1320	W104 43 21.7560	16.87S	153.25E

Installation					
Name	Easting	Northing	Coord System Name	North Alignment	
C Street Pad	3216204.7695	1403503.6566	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid	

Field					
Name	Easting	Northing	Coord System Name	North Alignment	
Wattenberg	3211772.6087	1400656.3763	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid	

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
CS-Kinkade #1-1-12	CS-Kinkade #1-1-12 (PWB)	Slot #23	C Street Pad	16.70	1066.00	13729.91	14.34	1098.68	2.78	16241.13
CS-Kinkade #3-1-12	CS-Kinkade #3-1-12 (PWB)	Slot #21	C Street Pad	16.71	967.44	8430.91	14.52	967.44	2.79	16241.13
CS-Kinkade #4-1-12	CS-Kinkade #4-1-12 (PWB)	Slot #20	C Street Pad	30.62	852.61	852.61	28.60	869.02	4.61	16241.13
CS-Sherwood #3-1-12	CS-Sherwood #3-1-12 (PWB)	Slot #24	C Street Pad	33.40	1066.00	8651.77	31.04	1098.68	4.60	16241.13
CS-Bestway #1-1-2	CS-Bestway #1-1-2 (PWB)	Slot #8	C Street Pad	44.53	1300.71	8408.08	41.79	1311.93	15.73	1410.36
CS-Sherwood #2-1-12	CS-Sherwood #2-1-12 (PWB)	Slot #25	C Street Pad	47.32	1066.00	16241.13	44.96	1098.68	7.00	16241.13
CS-Kinkade #5-1-12	CS-Kinkade #5-1-12 (PWB)	Slot #19	C Street Pad	47.32	754.19	754.19	45.47	770.59	7.05	16241.13
CS-Sherwood #1-1-12	CS-Sherwood #1-1-12 (PWB)	Slot #26	C Street Pad	64.02	1066.00	16241.13	61.66	1098.68	9.14	16241.13
CS-Longmeadow #1-1-12	CS-Longmeadow #1-1-12 (PWB)	Slot #18	C Street Pad	64.02	655.76	8076.90	62.34	655.76	9.20	16241.13
CS-Scott #5-1-12	CS-Scott #5-1-12	Slot #27	C Street Pad	80.73	1066.00	16241.13	78.36	1098.68	11.50	16241.13

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
	(PWB)									
CS-Longmeadow #2-1-12	CS-Longmeadow #2-1-12 (PWB)	Slot #17	C Street Pad	80.73	557.34	8060.67	79.05	491.72	11.60	16241.13
CS-Scott #4-1-12	CS-Scott #4-1-12 (PWB)	Slot #28	C Street Pad	97.43	1066.00	16241.13	95.06	1098.68	13.72	16241.13
CS-Scott #3-1-12	CS-Scott #3-1-12 (PWB)	Slot #29	C Street Pad	111.35	1066.00	13729.91	108.99	1082.27	16.09	16241.13
CS-Scott #2-1-12	CS-Scott #2-1-12 (PWB)	Slot #30	C Street Pad	128.05	967.44	16241.13	125.84	983.85	18.29	16241.13
CS-Scott #1-1-12	CS-Scott #1-1-12 (PWB)	Slot #31	C Street Pad	144.75	852.61	16241.13	142.74	869.02	20.64	16241.13
CS-Bittersweet #3-1-12	CS-Bittersweet #3-1-12 (PWB)	Slot #32	C Street Pad	158.71	754.19	16241.13	156.86	770.59	22.88	16241.13
GG-Cottonwood #4-13-12	GG-Cottonwood #4-13-12 (PWB)	Slot #45	Gallery Green	342.36	16241.13	16241.13	315.80	16241.13	12.89	16241.13
GG-Cottonwood 5-13-12	GG-Cottonwood #5-13-12 (PWB)	Slot #46	Gallery Green	471.63	16241.13	16241.13	356.00	16241.13	4.08	16241.13
GG-Cottonwood #3-13-12	GG-Cottonwood #3-13-12 (PWB)	Slot #44	Gallery Green	478.54	16241.13	16241.13	360.02	16241.13	4.04	16241.13
GG-Mariner #1-13-12	GG-Mariner #1-13-12 (PWB)	Slot #47	Gallery Green	746.10	16241.13	16241.13	600.41	16241.13	5.12	16241.13
GG-Cottonwood #2-13-12	GG-Cottonwood #2-13-12 (PWB)	Slot #43	Gallery Green	754.85	16241.13	16241.13	607.77	16241.13	5.13	16241.13
GG-Mariner #2-13-12	GG-Mariner #2-13-12 (PWB)	Slot #48	Gallery Green	1052.62	16241.13	16241.13	897.45	16241.13	6.78	16241.13
GG-Cottonwood #1-13-12	GG-Cottonwood #1-13-12 (PWB)	Slot #25	Gallery Green	1061.89	16241.13	16241.13	906.05	16241.13	6.81	16241.13
GG-Toddys #2-13-12	GG-Toddys #2-13-12 (PWB)	Slot #27	Gallery Green	1383.63	16241.13	16241.13	1224.49	16241.13	8.69	16241.13
GG-Mariner #3-13-12	GG-Mariner #3-13-12 (PWB)	Slot #49	Gallery Green	1409.74	16241.13	16241.13	1250.84	16241.13	8.87	16241.13
GG-Toddys #1-13-12	GG-Toddys #1-13-12 (PWB)	Slot #28	Gallery Green	1714.50	16241.13	16241.13	1553.62	16241.13	10.66	16241.13
GG-Centennial #1-13-12	GG-Centennial #1-13-12 (PWB)	Slot #50	Gallery Green	1730.78	16241.13	16241.13	1570.13	16241.13	10.77	16241.13
GG-Centennial #2-13-12	GG-Centennial #2-13-12 (PWB)	Slot #51	Gallery Green	2056.09	16241.13	16241.13	1894.52	16241.13	12.73	16241.13

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
DT-Martinez #1-5-6	DT-Martinez #1-5-6 (PWB)	Slot #11	Downtown	2122.34	10769.91	10769.91	2077.45	10727.94	38.22	9694.48
DT-Habitat #5-5-6	DT-Habitat #5-5-6 (PWB)	Slot #10	Downtown	2124.27	10449.07	10449.07	2084.51	10416.26	38.97	12302.75
DT-Habitat #2-5-6	DT-Habitat #2-5-6 (PWB)	Slot #7	Downtown	2124.47	9481.22	9481.22	2097.21	9481.22	39.21	11351.30
DT-Martinez #2-5-6	DT-Martinez #2-5-6 (PWB)	Slot #19	Downtown	2124.61	11094.14	11094.14	2075.72	11056.03	36.05	10088.18
DT-Habitat #4-5-6	DT-Habitat #4-5-6 (PWB)	Slot #9	Downtown	2124.80	10125.05	10125.05	2089.43	10104.58	39.03	11991.07
DT-Martinez #3-5-6	DT-Martinez #3-5-6 (PWB)	Slot #20	Downtown	2125.43	11411.09	11411.09	2071.34	11367.71	33.57	10498.28
DT-Habitat #1-5-6	DT-Habitat #1-5-6 (PWB)	Slot #6	Downtown	2126.40	9155.96	9155.96	2102.54	9169.54	39.35	11039.62
DT-Habitat #3-5-6	DT-Habitat #3-5-6 (PWB)	Slot #8	Downtown	2126.72	9800.80	9800.80	2096.04	9776.50	39.22	11679.39
DT-Lopez #2-5-6	DT-Lopez #2-5-6 (PWB)	Slot #5	Downtown	2126.93	8835.35	8835.35	2104.77	8874.27	39.37	10727.94
DT-Forbes #1-5-6	DT-Forbes #1-5-6 (PWB)	Slot #21	Downtown	2127.73	11745.00	11745.00	2068.45	11695.79	31.28	10891.98
DT-Forbes #2-5-6	DT-Forbes #2-5-6 (PWB)	Slot #22	Downtown	2128.62	12074.13	12074.13	2063.80	12023.87	29.21	11302.09
DT-Lopez #1-5-6	DT-Lopez #1-5-6 (PWB)	Slot #3	Downtown	2128.86	8513.38	8513.38	2108.09	8562.59	39.50	10399.86
DT-Forbes #3-5-6	DT-Forbes #3-5-6 (PWB)	Slot #23	Downtown	2133.72	12409.28	12409.28	2063.50	12368.36	27.41	11679.39
DT-Forbes #4-5-6	DT-Forbes #4-5-6 (PWB)	Slot #24	Downtown	2134.62	12740.81	12740.81	2058.73	12696.45	25.74	12073.09
DT-Forbes #5-5-6	DT-Forbes #5-5-6 (PWB)	Slot #25	Downtown	2136.93	13075.97	13075.97	2055.61	13024.53	24.27	12433.98
DT-Luther #1-5-6	DT-Luther #1-5-6 (PWB)	Slot #26	Downtown	2137.83	13407.49	13407.49	2050.82	13369.02	22.92	12811.28
MT-Luther #3-8-7	MT-Luther #3-8-7 (PWB)	Slot #1	Midtown	2141.70	14107.21	14107.21	2054.51	14189.23	20.20	15075.06
MT-Luther #2-8-7	MT-Luther #2-8-7 (PWB)	Slot #37	Midtown	2142.11	13750.17	13750.17	2055.18	13844.74	20.18	14730.57
MT-Maplewood #2-8-7	MT-Maplewood #2-8-7 (PWB)	Slot #3	Midtown	2142.31	14850.29	14850.29	2054.44	14927.42	20.14	15816.00
MT-Maplewood #1-8-7	MT-Maplewood #1-8-7 (PWB)	Slot #2	Midtown	2142.70	14476.93	14476.93	2055.34	14566.52	20.18	15452.35
MT-Maplewood #4-8-7	MT-Maplewood #4-8-7 (PWB)	Slot #5	Midtown	2142.92	15599.99	15599.99	2054.02	15682.01	20.46	16241.13
MT-Maplewood #3-8-7	MT-Maplewood #3-8-7 (PWB)	Slot #4	Midtown	2143.31	15223.64	15223.64	2055.15	15304.71	20.12	16190.54
MT-Maplewood #5-8-7	MT-Maplewood #5-8-7 (PWB)	Slot #6	Midtown	2143.92	15970.35	15970.35	2054.59	16042.90	22.12	16241.13

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Prepared by Peterson Energy
Date Printed: 20-May-2013



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: CS-Kinkade #2-1-12 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
MT-Heath #1-8-7	MT-Heath #1-8-7 (PWB)	Slot #7	Midtown	2145.98	16241.13	16241.13	2059.66	16241.13	24.86	16241.13
MT-Heath #2-8-7	MT-Heath #2-8-7 (PWB)	Slot #8	Midtown	2196.71	16241.13	16241.13	2110.10	16241.13	25.36	16241.13
MT-Heath #3-8-7	MT-Heath #3-8-7 (PWB)	Slot #9	Midtown	2301.73	16241.13	16241.13	2206.89	16241.13	24.27	16241.13
GG-Centennial #3-13-12	GG-Centennial #3-13-12 (PWB)	Slot #52	Gallery Green	2381.42	16241.13	16241.13	2219.21	16241.13	14.68	16241.13
Franklin Park 2-6-1	Franklin Park 2-6-1 (AWB)	Franklin Park 2-6-1	Bestway Pad Offsets	2416.99	12586.49	12586.49	2318.58	12565.21	23.93	12138.70
MT-Glenfair #1-8-7	MT-Glenfair #1-8-7 (PWB)	Slot #10	Midtown	2462.71	16241.13	16241.13	2360.89	16241.13	24.19	16241.13
Poudre Trail 5 2-2-1	Poudre Trail 5 2-2-1 (AWB)	Poudre Trail 5 2-2-1	Bestway Pad Offsets	2587.22	9650.71	9650.71	2528.79	9710.88	35.37	10990.41
MT-Glenfair #2-8-7	MT-Glenfair #2-8-7 (PWB)	Slot #11	Midtown	2665.12	16241.13	16241.13	2558.14	16241.13	24.91	16241.13
GG-Centennial #4-13-12	GG-Centennial #4-13-12 (PWB)	Slot #53	Gallery Green	2708.96	16241.13	16241.13	2546.34	16241.13	16.66	16241.13
MT-Glenfair #3-8-7	MT-Glenfair #3-8-7 (PWB)	Slot #12	Midtown	2902.35	16241.13	16241.13	2792.24	16241.13	26.36	16241.13
GG-Centennial #5-13-12	GG-Centennial #5-13-12 (PWB)	Slot #54	Gallery Green	3036.04	16241.13	16241.13	2873.11	16241.13	18.63	16241.13
MT-Glenfair #4-8-7	MT-Glenfair #4-8-7 (PWB)	Slot #13	Midtown	3164.67	16241.13	16241.13	3052.50	16241.13	28.21	16241.13
GG-Rangeview #1-13-12	GG-Rangeview #1-13-12 (PWB)	Slot #55	Gallery Green	3364.56	16241.13	16241.13	3201.37	16241.13	20.62	16241.13
MT-Glenfair #5-8-7	MT-Glenfair #5-8-7 (PWB)	Slot #14	Midtown	3448.08	16241.13	16241.13	3334.94	16241.13	30.48	16241.13
Bestway 12-2	Bestway 12-2 (AWB)	Bestway 12-2	Bestway Pad Offsets	3655.27	9792.90	9792.90	3606.31	9842.12	59.57	11630.17
MT-Glenmere #1-8-7	MT-Glenmere #1-8-7 (PWB)	Slot #15	Midtown	3746.20	16241.13	16241.13	3632.48	16241.13	32.94	16241.13
MT-Glenmere #2-8-7	MT-Glenmere #2-8-7 (PWB)	Slot #16	Midtown	4057.24	16241.13	16241.13	3943.43	16241.13	35.65	16241.13
LUNDVALL #5	LUNDVALL #5 (AWB)	LUNDVALL #5	Bestway Pad Offsets	4194.92	1066.00	9136.73	4184.57	1098.68	98.44	11466.13
Stoney 7-1-2	Stoney 7-1-2 (AWB)	Stoney 7-1-2	Bestway Pad Offsets	4330.43	8989.10	8989.10	4277.30	9021.91	70.37	10793.56
MT-Glenmere #3-17-18	MT-Glenmere #3-17-18 (PWB)	Slot #17	Midtown	4340.64	16241.13	16241.13	4226.77	16241.13	38.12	16241.13
Ruyle 7-3-2	Ruyle 7-3-2 (AWB)	Ruyle 7-3-2	Bestway Pad Offsets	4349.55	10323.69	10323.69	4305.93	10367.05	82.99	12384.77
MT-LDS #1-17-18	MT-LDS #1-17-18 (PWB)	Slot #18	Midtown	4630.86	16241.13	16241.13	4517.24	16241.13	40.76	16241.13
MT-LDS #2-17-18	MT-LDS #2-17-18	Slot #19	Midtown	4925.48	16241.13	16241.13	4811.99	16241.13	43.40	16241.13

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